

Supplemental Information

Table S1.

Experiment	Session	Effect	F value	DF	p value
Experiment 2	FR1	group	< 1.0	1,11	> .05
		session	2.7	8,88	< .01
		lever	7.8	1,11	> .05
		session x group	< 1.0	8,88	> .05
		session x lever	1.8	8,88	0.08
		lever x group	1.3	1,11	> .05
		session x lever x group	< 1.0	8,88	> .05
	FR5	group	< 1.0	1,11	> .05
		session	1.3	18,198	> .05
		lever	10.9	1,11	< .01
		session x group	< 1.0	18,198	> .05
		session x lever	1.5	18,198	0.07
		lever x group	< 1.0	1,11	> .05
		session x lever x group	0.1	18,198	> .05
	Ext	group	< 1.0	1,11	> .05
		session	3.3	2,22	.052
		lever	8.1	1,11	< .05
		session x group	< 1.0	2,22	> .05
		session x lever	4.4	2,22	< .05
		lever x group	0.1	1,11	> .05
		session x lever x group	< 1.0	2,22	> .05

Table S2.

Experiment	Session	Effect	F value	DF	p value
Experiment 4	FR1	group	3.8	3,27	> .05
		session	1.7	3,27	> .05
		lever	8.8	1,9	.01
		session x group	< 1.0	3,27	> .05
		session x lever	1.6	3,27	> .05
		lever x group	< 1.0	1,9	> .05
		session x lever x group	0.9	3,27	> .05
	FR3	group	< 1.0	1,9	> .05
		session	4.9	3,27	< .01
		lever	36	1,9	< .001
		session x group	< 1.0	3,27	> .05
		session x lever	2.9	3,27	0.051
		lever x group	1.0	1,9	> .05
		session x lever x group	3.0	3,27	> .05
	FR5 (pre-shock)	group	1.5	1,9	> .05
		session	1.2	5,45	> .05
		lever	28.2	1,45	<.001
		session x group	2.1	5,45	0.08
		session x lever	< 1.0	5,45	> .05
		lever x group	1.4	1,9	> .05
		session x lever x group	< 1.0	5,45	> .05

Table S3.

Experiment	Session	Effect	F value	DF	p value
Experiment 4	FR5 (post-shock)	group	2.9	1,9	> .05
		session	15.9	1,9	< .01
		lever	15.7	1,9	< .01
		session x group	2.4	1,9	> .05
		session x lever	11.3	1,9	< .01
		lever x group	< 1.0	1,9	> .05
		session x lever x group	1.6	1,9	> .05
	FR10	group	< 1.0	1,9	> .05
		session	1.3	13,117	> .05
		lever	22.0	1,9	< .01
		session x group	1.0	13,117	> .05
		session x lever	< 1.0	13,117	> .05
		lever x group	< 1.0	1,9	> .05
		session x lever x group	< 1.0	13,117	> .05
	Ext	group	1.4	1,9	> .05
		session	8.5	2,18	< .01
		lever	23.1	1,9	< .01
		session x group	< 1.0	2,18	> .05
		session x lever	5.8	2,18	< .05
		lever x group	2.6	2,9	> .05
		session x lever x group	< 1.0	2,18	> .05

Table S4. Tests of Reinstatement. Session in these analyses has two levels (extinction prior to reinstatement test and the reinstatement test itself)

Experiment	Reinstatement Test	Effect	F value	DF	p value
Experiment 4	Restraint	group	1.6	1,9	> .05
		session	7.9	1,9	< .05
		lever	12.7	1,9	< .01
		session x group	1.8	1,9	> .05
		session x lever	4.0	1,9	> .05
		lever x group	4.0	1,9	> .05
		session x lever x group	1.2	1,9	> .05
	Cue-Induced	group	3.4	1,9	0.09
		session	51.3	1,9	< .0001
		lever	51.4	1,9	< .0001
		session x group	7.1	1,9	< .05
		session x lever	37.6	1,9	<.0001
		lever x group	8.2	1,9	< .05
		session x lever x group	5.3	1,9	< .05
	Retention	group	1.1	1,9	> .05
		session	29.1	1,9	< .001
		lever	51.5	1,9	< .001
		session x group	2.6	1,9	> .05
		session x lever	59.5	1,9	< .001
		lever x group	< 1.0	1,9	> .05
		session x lever x group	2.1	1,9	> .05
	Footshock	group	5.0	1,9	0.05
		session	7.3	1,9	< .05
		lever	< 1.0	1,9	> .05
		session x group	2.7	1,9	> .05
		session x lever	< 1.0	1,9	> .05
		lever x group	< 1.0	1,9	> .05
		session x lever x group	< 1.0	1,9	> .05

Table S5.

Experiment	Session	Effect	F value	DF	p value
Experiment 4	Ext	group	1.4	1,9	> .05
		session	8.5	2,18	< .01
		lever	23.1	1,9	< .01
		session x group	< 1.0	2,18	> .05
		session x lever	5.8	2,18	< .05
		lever x group	2.6	1,9	> .05
		session x lever x group	< 1.0	2,18	> .05
	Ext After Restraint	group	< 1.0	1,9	> .05
		session	6.0	3,27	< .001
		lever	20.1	1,9	< .01
		session x group	1.6	3,27	> .05
		session x lever	1.4	3,27	> .05
		lever x group	4.1	1,9	> .05
		session x lever x group	< 1.0	3,27	> .05
	Ext After Cued Reinstatement	group	2.2	1,9	> .05
		session	5.8	5,45	< .001
		lever	66.3	1,9	< .001
		session x group	< 1.0	5,45	> .05
		session x lever	9.8	5,45	< .001
		lever x group	10.7	1,9	< .01
		session x lever x group	2.4	5,45	< .05
	Ext After Retention	group	2.7	1,9	> .05
		session	2.3	12,108	< .01
		lever	11.7	1,9	< .01
		session x group	2.4	12,108	< .01
		session x lever	3.2	12,108	< .01
		lever x group	1.3	1,9	> .05
		session x lever x group	2.5	12,108	.069

Table S6.

Experiment	Session	Effect	F value	DF	p value
Experiment 5	FR1	group	< 1.0	1,13	> .05
		session	< 1.0	2,26	> .05
		lever	20.7	1,13	.001
		session x group	< 1.0	2,26	> .05
		session x lever	< 1.0	2,26	> .05
		lever x group	< 1.0	1,13	> .05
		session x lever x group	1.2	2,26	> .05
	FR3	group	< 1.0	1,13	> .05
		session	2.7	1,13	> .05
		lever	31.5	1, 13	< .001
		session x group	< 1.0	1,13	> .05
		session x lever	< 1.0	1,13	> .05
		lever x group	< 1.0	1,13	> .05
		session x lever x group	< 1.0	1,13	> .05
	FR5	group	< 1.0	1,13	> .05
		session	6.0	9,117	< .001
		lever	34.2	1,13	< .001
		session x group	1.2	9,117	> .05
		session x lever	< 1.0	9,117	> .05
		lever x group	< 1.0	1,13	> .05
		session x lever x group	< 1.0	9,117	> .05
	Extinction	group	< 1.0	1,13	> .05
		session	9.3	4,52	< .001
		lever	49.4	1,13	< .001
		session x group	1.0	4,52	> .05
		session x lever	10.7	4,52	< .001
		lever x group	2.1	1,13	> .05
		session x lever x group	1.5	4,52	> .05